



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 W St. Rd 4
Olmitz Ks, 67564
ATTN: Vern Schrag

Cramer 2-22
22/17s/30w
Job Ticket: 40216 **DST#: 5**
Test Start: 2010.09.18 @ 16:41:00

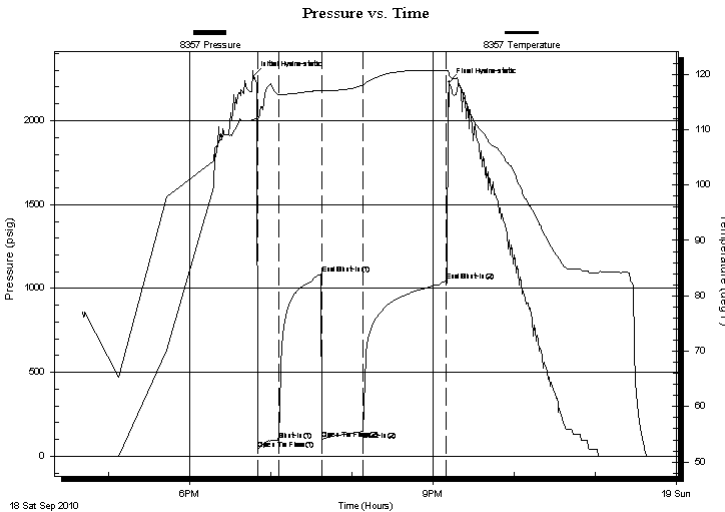
GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:50:18
Time Test Ended: 23:40:17
Interval: **4395.00 ft (KB) To 4534.00 ft (KB) (TVD)**
Total Depth: 4534.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2867.00 ft (KB)
2862.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8357 Inside
Press @ Run Depth: 148.99 psig @ 4397.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.18 End Date: 2010.09.18 Last Calib.: 2010.09.19
Start Time: 16:41:05 End Time: 23:40:18 Time On Btm: 2010.09.18 @ 18:47:30
Time Off Btm: 2010.09.18 @ 21:11:54

TEST COMMENT: IF: 8" Blow.
IS: No return.
FF: B.O.B. @ 29 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.30	111.85	Initial Hydro-static
3	42.36	111.72	Open To Flow (1)
19	97.83	116.34	Shut-In(1)
50	1086.72	117.09	End Shut-In(1)
51	102.08	116.87	Open To Flow (2)
81	148.99	118.07	Shut-In(2)
143	1043.14	120.66	End Shut-In(2)
145	2230.13	119.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOSWM 5%G 15%W 80%M	0.30
111.00	GOWCM 10%G 10%W 5%O 75%M	0.82
119.00	GOCM 10%G 3%O 87%M	1.67
20.00	GSOCM 5%G 2%O 93%M	0.28
0.00	API: .280 @ 54 Degrees F = 32000 PPM	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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FLUID SUMMARY

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DST#: 5

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Test Start: 2010.09.18 @ 16:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOSWM 5%G 15%W 80%M	0.295
111.00	GOWCM 10%G 10%W 5%O 75%M	0.819
119.00	GOCM 10%G 3%O 87%M	1.669
20.00	GSOCM 5%G 2%O 93%M	0.281
0.00	API: .280 @ 54 Degrees F = 32000 PPM	0.000

Total Length: 310.00 ft

Total Volume: 3.064 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

